

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/083704 A1

(51) International Patent Classification⁷: **G06F 17/21**

(21) International Application Number: **PCT/EP03/01774**

(22) International Filing Date: 21 February 2003 (21.02.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02007137.9 28 March 2002 (28.03.2002) EP

(71) Applicant: **INTERNATIONAL BUSINESS MACHINES CORPORATION [US/US]**; New Orchard Road, Armonk, NY 10504 (US).

(71) Applicant (for LU only): **IBM DEUTSCHLAND GMBH [DE/DE]**; Pascalstrasse 100, 70569 Stuttgart (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BOEHME,**

Thomas, Friedhelm [DE/DE]; Sofienweg 4, 70771 Leinfelden-Echterdingen (DE). **LIBERMAN, Alexandra [DE/DE]**; Berliner Ring 57, 72076 Tuebingen (DE).

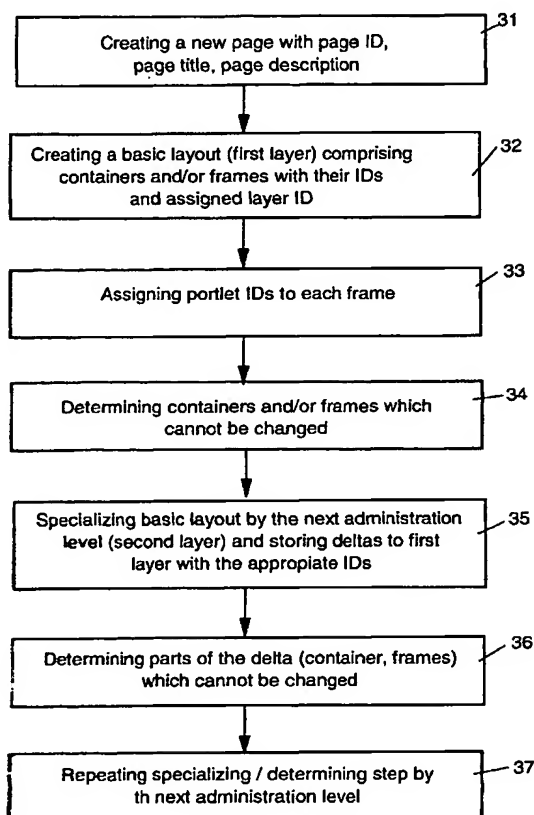
(74) Agent: **KLEIN, Hans-Jörg**; IBM Deutschland GmbH, Intellectual Property, 70548 Stuttgart (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR HIERARCHICAL LAYOUT SPECIALIZATION



(57) Abstract: The present invention discloses a system and method for delegated page specialization based on a page layer concept. A page consist of a set of layers. Except the first layer each layer represents a delta (container, frames) in its layout to its previous layer introduced on the corresponding level of administration. Administrators can modify the previous layers by defining new immutable and optional containers or frames on the page (delta). Only the deltas to the previous layers are stored with assignments to their parent layers. Immutable containers or frames of previous layers cannot be modified. The final page is automatically constructed as an union of deltas being stored in a so called tree-structure. The delegated page specialization is preferably accomplished via a GUI-component which supports the administrators.

WO 03/083704 A1



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

INTERNATIONAL SEARCH REPORT

Intern ... Application No

PCT/EP 03/01774

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F17/21

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 327 628 B1 (CHASTON MILES ET AL) 4 December 2001 (2001-12-04) abstract; figure 7 column 2, line 1 - line 21 column 7, line 57 - column 10, line 50; figures 2,4,6,7 column 13, line 21 - column 17, line 19; figures 2,10-13	1-21
A	US 6 023 715 A (KISH JOHN W ET AL) 8 February 2000 (2000-02-08) abstract; figure 3A column 2, line 14 - line 59 column 6, line 15 - line 58; figures 3A,3B column 7, line 57 - column 8, line 29; figures 4A,4B column 10, line 59 - line 65	1-21

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

* & * document member of the same patent family

Date of the actual completion of the international search

15 July 2003

Date of mailing of the international search report

25/07/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Stauch, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/01774

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6327628	B1	04-12-2001	AU 6175501 A WO 0190945 A2 US 2002029296 A1	03-12-2001 29-11-2001 07-03-2002
US 6023715	A	08-02-2000	NONE	